

Amendments to the Claims:

The following listing of claims will replace all prior versions and listings of claims.

Listing of Claims:

Claims 1-23 (Canceled)

¹
Claim ~~24~~. (Previously presented) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:

- (a) a protein consisting of amino acid residues 1 to 121 of SEQ ID NO:68;
- (b) a protein consisting of amino acid residues 17 to 121 of SEQ ID NO:68;
- (c) a protein consisting of a portion of SEQ ID NO:68, wherein said portion comprises at least 30 contiguous amino acid residues of SEQ ID NO:68; and
- (d) a protein consisting of a portion of SEQ ID NO:68, wherein said portion comprises at least 50 contiguous amino acid residues of SEQ ID NO:68.

²
Claim ~~25~~. (Previously presented) The antibody or fragment thereof of claim ¹~~24~~ that specifically binds protein (a).

³
Claim ~~26~~. (Previously presented) The antibody or fragment thereof of claim ¹~~24~~ that specifically binds protein (b).

⁴
Claim ~~27~~. (Previously presented) The antibody or fragment thereof of claim ¹~~24~~ that specifically binds protein (c).

⁵
Claim ~~28~~. (Previously presented) The antibody or fragment thereof of claim ¹~~24~~ that specifically binds protein (d).

⁶
Claim ~~29~~. (Previously presented) The antibody or fragment thereof of claim ²~~25~~ that specifically binds protein (b).

⁷
Claim ~~30~~. (Previously presented) The antibody or fragment thereof of claim ~~24~~,¹
wherein said protein bound by said antibody or fragment thereof is glycosylated.

⁸
Claim ~~31~~. (Previously presented) The antibody or fragment thereof of claim ~~24~~,¹
which is a human antibody.

⁹
Claim ~~32~~. (Previously presented) The antibody or fragment thereof of claim ~~24~~,¹
which is a polyclonal antibody.

¹⁰
Claim ~~33~~. (Previously presented) The antibody or fragment thereof of claim ~~24~~,¹
which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a humanized antibody;
- (c) a single chain antibody; and
- (d) a Fab fragment.

¹¹
Claim ~~34~~. (Previously presented) The antibody or fragment thereof of claim ~~24~~,¹
which is labeled.

¹²
Claim ~~35~~. (Previously presented) The antibody or fragment thereof of claim ~~24~~,¹¹
wherein the label is selected from the group consisting of:

- (a) an enzyme;
- (b) a radioisotope; and
- (c) a fluorescent label.

¹³
Claim ~~36~~. (Previously presented) The antibody or fragment thereof of claim ~~24~~,¹
wherein said antibody or fragment thereof specifically binds to said protein in a Western
blot.

¹⁴
Claim ~~37~~. (Previously presented) The antibody or fragment thereof of claim ~~24~~,¹
wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

¹⁵
Claim ~~38~~. (Previously presented) An isolated cell that produces the antibody or fragment thereof of claim ~~24~~¹.

¹⁶
Claim ~~39~~. (Previously presented) A hybridoma that produces the antibody or fragment thereof of claim ~~24~~¹.

¹⁷
Claim ~~40~~. (Previously presented) An isolated antibody or fragment thereof obtained from an animal that has been immunized with a protein selected from the group consisting of:

- (a) a protein comprising the amino acid sequence of amino acid residues 1 to 121 of SEQ ID NO:68;
- (b) a protein comprising the amino acid sequence of amino acid residues 17 to 121 of SEQ ID NO:68;
- (c) a protein comprising the amino acid sequence of at least 30 contiguous amino acid residues of SEQ ID NO:68; and
- (d) a protein comprising the amino acid sequence of at least 50 contiguous amino acid residues of SEQ ID NO:68;

wherein said antibody or fragment thereof specifically binds to said amino acid sequence.

¹⁸
Claim ~~41~~. (Previously presented) The antibody or fragment thereof of claim ~~40~~¹⁷ obtained from an animal immunized with protein (a).

¹⁹
Claim ~~42~~. (Previously presented) The antibody or fragment thereof of claim ~~40~~¹⁷ obtained from an animal immunized with protein (b).

²⁰
Claim ~~43~~. (Previously presented) The antibody or fragment thereof of claim ~~40~~¹⁷ obtained from an animal immunized with protein (c).

²¹
Claim ~~44~~. (Previously presented) The antibody or fragment thereof of claim ~~40~~¹⁷ obtained from an animal immunized with protein (d).

Claim ~~45~~²². (Previously presented) The antibody or fragment thereof of claim ~~45~~¹⁷ which is a monoclonal antibody.

Claim ~~46~~²³. (Previously presented) The antibody or fragment thereof of claim ~~46~~¹⁷ which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) a Fab fragment.

Claim ~~47~~²⁴. (Previously presented) An isolated monoclonal antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:

- (a) a protein consisting of amino acid residues 1 to 121 of SEQ ID NO:68;
- (b) a protein consisting of amino acid residues 17 to 121 of SEQ ID NO:68;
- (c) a protein consisting of a portion of SEQ ID NO:68, wherein said portion comprises at least 30 contiguous amino acid residues of SEQ ID NO:68; and
- (d) a protein consisting of a portion of SEQ ID NO:68, wherein said portion comprises at least 50 contiguous amino acid residues of SEQ ID NO:68.

Claim ~~48~~²⁵. (Previously presented) The antibody or fragment thereof of claim ~~48~~²⁴ that specifically binds protein (a).

Claim ~~49~~²⁶. (Previously presented) The antibody or fragment thereof of claim ~~49~~²⁴ that specifically binds protein (b).

Claim ~~50~~²⁷. (Previously presented) The antibody or fragment thereof of claim ~~50~~²⁴ that specifically binds protein (c).

Claim ~~51~~²⁸. (Previously presented) The antibody or fragment thereof of claim ~~51~~²⁴ that specifically binds protein (d).

²⁹
Claim ~~52~~. (Previously presented) The antibody or fragment thereof of claim ~~49~~, ²⁶
wherein said protein bound by said antibody or fragment thereof is glycosylated.

³⁰
Claim ~~53~~. (Previously presented) The antibody or fragment thereof of claim ~~49~~, ²⁶
which is a human antibody.

³¹
Claim ~~54~~. (Previously presented) The antibody or fragment thereof of claim ~~49~~, ²⁶
which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a humanized antibody;
- (c) a single chain antibody; and
- (d) a Fab fragment.

³²
Claim ~~55~~. (Previously presented) The antibody or fragment thereof of claim ~~49~~, ²⁶
which is labeled.

³³
Claim ~~56~~. (Previously presented) The antibody or fragment thereof of claim ~~55~~, ³²
wherein the label is selected from the group consisting of:

- (a) an enzyme;
- (b) a radioisotope; and
- (c) a fluorescent label.

³⁴
Claim ~~57~~. (Previously presented) The antibody or fragment thereof of claim ~~49~~, ²⁶
wherein said antibody or fragment thereof specifically binds to said protein in a Western
blot.

³⁵
Claim ~~58~~. (Previously presented) The antibody or fragment thereof of claim ~~49~~, ²⁶
wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

³⁶
Claim ~~59~~. (Previously presented) An isolated cell that produces the antibody or
fragment thereof of claim ~~49~~, ²⁶

³⁷
Claim ~~60~~. (Previously presented) A hybridoma that produces the antibody or fragment thereof of claim ~~49~~. ^{2b}

³⁸
Claim ~~61~~. (Previously presented) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:

- (a) a protein consisting of the full-length polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922;
- (b) a protein consisting of the secreted portion of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922;
- (c) a protein consisting of a portion of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922, wherein said portion comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922; and
- (d) a protein consisting of a portion of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922, wherein said portion comprises at least 50 contiguous amino acid residues of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922.

³⁹
Claim ~~62~~. (Previously presented) The antibody or fragment thereof of claim ~~61~~ ³⁸ that specifically binds protein (a).

⁴⁰
Claim ~~63~~. (Previously presented) The antibody or fragment thereof of claim ~~61~~ ³⁸ that specifically binds protein (b).

⁴¹
Claim ~~64~~. (Previously presented) The antibody or fragment thereof of claim ~~61~~ ³⁸ that specifically binds protein (c).

⁴²
Claim ~~65~~. (Previously presented) The antibody or fragment thereof of claim ~~61~~ ³⁸ that specifically binds protein (d).

⁴³
Claim ~~66~~. (Previously presented) The antibody or fragment thereof of claim ~~63~~ 39 that specifically binds protein (b).

⁴⁴
Claim ~~67~~. (Previously presented) The antibody or fragment thereof of claim ~~63~~, 40 wherein said protein bound by said antibody or fragment thereof is glycosylated.

⁴⁵
Claim ~~68~~. (Previously presented) The antibody or fragment thereof of claim ~~63~~ 40 which is a human antibody.

⁴⁶
Claim ~~69~~. (Previously presented) The antibody or fragment thereof of claim ~~63~~ 40 which is a polyclonal antibody.

⁴⁷
Claim ~~70~~. (Previously presented) The antibody or fragment thereof of claim ~~63~~ 40 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a humanized antibody;
- (c) a single chain antibody; and
- (d) a Fab fragment.

⁴⁸
Claim ~~71~~. (Previously presented) The antibody or fragment thereof of claim ~~63~~ 40 which is labeled.

⁴⁹
Claim ~~72~~. (Previously presented) The antibody or fragment thereof of claim ~~71~~, 48 wherein the label is selected from the group consisting of:

- (a) an enzyme;
- (b) a radioisotope; and
- (c) a fluorescent label.

⁵⁰
Claim ~~73~~. (Previously presented) The antibody or fragment thereof of claim ~~63~~, 39 wherein said antibody or fragment thereof specifically binds to said protein in a Western blot.

51
Claim ~~74~~. (Previously presented) The antibody or fragment thereof of claim ~~63~~ 40, wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

52
Claim ~~75~~. (Previously presented) An isolated cell that produces the antibody or fragment thereof of claim ~~63~~ 40

53
Claim ~~76~~. (Previously presented) A hybridoma that produces the antibody or fragment thereof of claim ~~63~~ 40

54
Claim ~~77~~. (Previously presented) An isolated antibody or fragment thereof obtained from an animal that has been immunized with a protein selected from the group consisting of:

- (a) a protein comprising the amino acid sequence of the full-length polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922;
- (b) a protein comprising the amino acid sequence of the secreted portion of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922;
- (c) a protein comprising the amino acid sequence of at least 30 contiguous amino acid residues of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922; and
- (d) a protein comprising the amino acid sequence of at least 50 contiguous amino acid residues of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922;

wherein said antibody or fragment thereof specifically binds to said amino acid sequence.

55
Claim ~~78~~. (Previously presented) The antibody or fragment thereof of claim ~~77~~ 54 obtained from an animal immunized with protein (a).

56
Claim ~~79~~. (Previously presented) The antibody or fragment thereof of claim ~~77~~ 54 obtained from an animal immunized with protein (b).

⁵⁷
Claim ~~80~~. (Previously presented) The antibody or fragment thereof of claim ⁵⁴~~71~~
obtained from an animal immunized with protein (c).

⁵⁸
Claim ~~81~~. (Previously presented) The antibody or fragment thereof of claim ⁵⁴~~71~~
obtained from an animal immunized with protein (d).

⁵⁹
Claim ~~82~~. (Previously presented) The antibody or fragment thereof of claim ⁵⁴~~71~~
which is a monoclonal antibody.

⁶⁰
Claim ~~83~~. (Previously presented) The antibody or fragment thereof of claim ⁵⁴~~71~~
which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) a Fab fragment.

⁶¹
Claim ~~84~~. (Previously presented) An isolated monoclonal antibody or fragment
thereof that specifically binds to a protein selected from the group consisting of:

- (a) a protein consisting of the full-length polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922;
- (b) a protein consisting of the secreted portion of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922;
- (c) a protein consisting of a portion of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922, wherein said portion comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922; and
- (d) a protein consisting of a portion of the polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922, wherein said portion comprises at least 50 contiguous amino acid residues of the

polypeptide encoded by the HPMBQ91 cDNA contained in ATCC Deposit Number 97922.

- ⁶²
Claim ~~85~~. (Previously presented) The antibody or fragment thereof of claim ~~84~~ ⁶¹
that specifically binds protein (a).
- ⁶³
Claim ~~86~~. (Previously presented) The antibody or fragment thereof of claim ~~84~~ ⁶¹
that specifically binds protein (b).
- ⁶⁴
Claim ~~87~~. (Previously presented) The antibody or fragment thereof of claim ~~84~~ ⁶¹
that specifically binds protein (c).
- ⁶⁵
Claim ~~88~~. (Previously presented) The antibody or fragment thereof of claim ~~84~~ ⁶¹
that specifically binds protein (d).
- ⁶⁶
Claim ~~89~~. (Previously presented) The antibody or fragment thereof of claim ~~85~~ ⁶²
that specifically binds protein (b).
- ⁶⁷
Claim ~~90~~. (Previously presented) The antibody or fragment thereof of claim ~~86~~ ⁶³,
wherein said protein bound by said antibody or fragment thereof is glycosylated.
- ⁶⁸
Claim ~~91~~. (Previously presented) The antibody or fragment thereof of claim ~~86~~ ⁶³
which is a human antibody.
- ⁶⁹
Claim ~~92~~. (Previously presented) The antibody or fragment thereof of claim ~~86~~ ⁶³
which is selected from the group consisting of:
- (a) a chimeric antibody;
 - (b) a humanized antibody;
 - (c) a single chain antibody; and
 - (d) a Fab fragment.

⁷⁰
Claim ~~93~~. (Previously presented) The antibody or fragment thereof of claim ~~86~~⁶³
which is labeled.

⁷¹
Claim ~~94~~. (Previously presented) The antibody or fragment thereof of claim ~~93~~⁷⁰,
wherein the label is selected from the group consisting of:

- (a) an enzyme;
- (b) a radioisotope; and
- (c) a fluorescent label.

⁷²
Claim ~~95~~. (Previously presented) The antibody or fragment thereof of claim ~~86~~⁶³,
wherein said antibody or fragment thereof specifically binds to said protein in a Western
blot.

⁷³
Claim ~~96~~. (Previously presented) The antibody or fragment thereof of claim ~~86~~⁶³,
wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

⁷⁴
Claim ~~97~~. (Previously presented) An isolated cell that produces the antibody or
fragment thereof of claim ~~86~~⁶³.

⁷⁵
Claim ~~98~~. (Previously presented) A hybridoma that produces the antibody or
fragment thereof of claim ~~86~~⁶³.